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Case Docket No. 7395  
Date: December 14, 2006

Mail Stop Appeals - Patents  
COMMISSIONER OF PATENTS  
PO Box 1450  
Alexandria, VA 22313-1450

Re: Application of: Hitch Art Unit: 1771  
Serial No.: 10/812,457 Examiner: COLE, Elizabeth M.  
Filed: March 30, 2004  
For: NONWOVEN FIBER MATS WITH SMOOTH SURFACES AND METHOD

Transmitted herewith is/are the following document(s) related to the above-identified application:

- ☐ Notice of Appeal  
☒ Appeal Brief in response to Notification of Non-Compliant Appeal Brief 12/01/2006  
☐ Request for Oral Hearing

Please extend the time for filing the \_\_\_\_\_ ( ) month to \_\_\_\_\_.

The fee has been calculated as shown below:

Notice of Appeal	\$500.00	
Appeal Brief	\$500.00	500.00
Request for Oral Hearing	\$1000.00	
Fee for Extension of Time		
1 month \$120.00, 2 months \$450.00, 3 months \$1020.00		
Total		500.00

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In re Application of: Hitch

Art Unit: 1771

**Serial No. 10/812,457**

Case Docket No. 7395

Filed: March 30, 2004

Examiner: Cole, Elizabeth M.  
December 12, 2006

For: NONWOVEN FIBER MATS WITH SMOOTH SURFACES AND METHOD

Commissioner of the Patents & Trademarks  
Washington, D. C. 20231

Dear Sir:

In response to the Final Office Action mailed on March 30, 2006, the Advisory Action mailed May 10, 2006, Applicant has appealed the final rejection of the claims in the application and in response to the Notifications of Non-Compliant Appeal brief the Second Amended Appeal Brief is submitted below.

## **SECOND AMENDED APPEAL BRIEF**

### **Real Party In Interest:**

The real party in interest is Johns Manville Corporation, previously Johns Manville International, Inc., previously Schuller International, Inc., assignee of the inventor, Hitch.

### **Related Appeals and Interferences**

**NONE**

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### **Status of the Claims**

Claims 1-8, 14 and 15 were finally rejected under 35 USC 112, first and second paragraphs, 35 USC 102. Claims 3,4,7,8,14 and 15 stand finally rejected under 35 USC 103. A rejection of double patenting was overcome by the filing of a Terminal Disclaimer filed on May 3, 2006. Applicant appeals from the Final Rejection under 35 USC 112, first and second paragraphs, 35 USC 102 and 35 USC 103. Claims 9-13 were cancelled.

### **Status of Amendments**

After the Final Office Action mailed March 30, 2006, an amendment after final was filed. Even though the Examiner had made new rejections in the Final Office action, the amendment was not entered and the Examiner maintained the Final Rejection.

### **Summary of the Claimed Invention:**

The claimed invention includes nonwoven fibrous mats having a smooth surface with a reduced amount of "stand-up" fibers, being improved mats for coating or painting, the result of being comprised of a blend of fibers having at least two different lengths, all of the fibers having a diameter in the range of about 9 to about 14 microns and being in the range of about 0.12 inch to about 0.6 inch long, about 25 to about 50 wt. percent of the fibers being less than about 0.4 inch long and about 75 to about 50 wt. percent of the fibers having a length of at least 0.45 inch long, the fibers being bound together with about 10-25 wt. percent of a cured binder. It is the combination of different fiber lengths in the ratio claimed that produces an improved surface for painting or coating on the fibrous nonwoven mat.

Basis in the specification for the limitations of independent claim 1 on appeal is as follows:

Mat with improved surface, see page 3, lines 4-5, and the last three lines of each of Examples 2 and 3.

Fibers having diameter of 9-14 microns and lengths in range of 0.12-0.6 inch, see page 3, lines 4-5, page 4, first 3 lines of the first paragraph of the Detailed Description and page 8, original claim 1.

Mat containing about 25-50 wt. percent of fibers w/length of less than about 0.4 in. and about 75 to about 50 wt. percent of fibers having a length of at least about 0.45 in., see Examples 2 and 3 and page 8, original claim 3.

The term "stand up fibers" refers to fibers that protrude from a surface of the mat various distances and make painting or coating of the surface difficult and cause visual defects in the painted or coated surface, see page 2, second full paragraph and the latter part of the third full paragraph. The invention of original claims 3,4,7,8, 14 and 15 describe a mat in which the two lengths of fibers are present in the mat in about equal parts, please see page 3, last line of first full paragraph and Example 3.

When a lot of "stand up fibers" are present on the exposed surface of the fibrous nonwoven mat, a condition present in prior art mats, the exposed mat surface, coated or lightly coated, is difficult to paint and achieve a nice appearance, as explained in the penultimate paragraph of the Background section of the present Specification on page 2. This is particularly important when the mat or coated mat is used as a facer on products such as gypsum wallboard, a typical application for the mats of the present invention. The mats made in Examples 2 and 3 on page 7 of the specification, made according to the invention, are compared with a conventional mat made in the same manner in Example 1 except that the fibers are conventionally all the same length. The mats of the invention have significantly fewer "stand up fibers", requiring less coating than prior art mats to produce a paintable surface, as pointed out in the last two sentences of Examples 2 and 3 on page 7.

The invention also includes laminates comprising a layer of nonwoven mat of the invention as described above except that the fibers in the mat have lengths

within the range of about 0.12 inch and about 0.8 inch, please see page 3, lines 4-5 containing the sentence, "The length of the glass fibers can be from about 0.12 inch to about 0.8 inch, preferably from about 0.2 inch to about 0.6 inch." The particular combination of fiber lengths recited in claims 5-8 and 15, read in the light of the specification, produces mats having a smooth surface and a surface having no, or significantly fewer, "stand up fibers", see page 3, lines 5-9 of the first full paragraph, and the last two sentences of Example 2 on page 7 and the last two sentences of Example 3 on page 7, making these mats particularly suitable for coating, see page 1, lines 1-2 of first full paragraph, and for using in laminates in which the coating is an exposed surface for painting, etc., see page 1, lines 2-3 and particularly the words "for facing products — gypsum board"

**Grounds of Rejection:**

1. All of the claims stand finally rejected under 35 USC 112, first paragraph, as lacking descriptive support for, "about 25 to about 50 wt. percent fibers having a length of less than about 0.4 inch long and about 75 to about 50 wt. percent fibers having a length at least about 0.45 inch long."
2. All of the claims stand finally rejected under 35 USC 112, second paragraph as being vague and indefinite because of the phrase, "a reduced amount of stand up fibers."
3. All of the claims stand finally rejected under 35 USC 102(b) as being anticipated by the disclosure of Peng et al, U.S. Pat. Pub. No. 2003/0054714.
4. Claims 3-4, 7-8, and 14-15 stand finally rejected under 35 USC 103(a) as being obvious from the disclosure of Peng et al, described in # 3 above.

**ARGUMENTS:**

**Ground #1 - Whether the specification provides descriptive support as required by 35 USC 112, first paragraph, for "about 25 to about 50 wt. percent fibers having a length of less than about 0.4 inch long and about 75 to about 50 wt. percent fibers having a length at least about 0.45 inch long."**

The specification, which includes the original claims, does provide reasonable descriptive support for the limitations objected to for the following reasons:

1. The specification at page 3, in the Summary of the Invention, includes the following statement: .

"Preferably a major portion of the fiber is at least about 0.45 inch long and a minor portion of the fiber is shorter than about 0.4 inch."

It is well established that the claims are to be read in light of the specification and that the inventor is entitled to be his own lexicographer unless a term is used in a manner contrary to the ordinary meaning in the particular art most pertinent to the invention. It is well established that the term "major portion" in a two component system, in this case the fiber system made up of two portions, the fibers of each portion having a different length, means "greater" than the other portion, e. g. "greater in quantity" according to Funk and Wagnall's NEW STANDARD OF THE ENGLISH LANGUAGE, 1943 edition. Claim 1 contains the term phrase, "blend of fibers of at least two different lengths". In a two fiber length component system the major portion would be any quantity greater than about 50 wt. %, i.e. at least slightly larger than 50 wt. % such as 50.01 wt. % and the minor portion would be any quantity less than about 50 wt. % such as less than about 50 wt. % or less than 49.9999 wt. percent. This establishes the basis for the term "about 50 wt. percent" on each end of the range of the different length fiber portions.

2. Also, original claim 13, a part of the specification, states: "The method of claim 9 wherein about half of the fiber is at least about 0.45 inch long and a remainder of the fiber is less than about 0.4 inch long."
3. Original claim 8 states: "The mat of claim 5 wherein the mat contains about 75 wt. percent fiber that is at least about 0.45 inch long and about 25 wt. percent fiber that is about 0.2 inch long."
4. Example 3 illustrates using a blend of about 50 % 0.5 inch and about 50% 0.2 inch fiber.
5. Example 2 illustrates using a blend of about 75 % .5 inch long fiber and about 25% fiber that was 0.2 inch long.

This disclosure clearly illustrates, and describes, to one of ordinary skill in the art that the "major portion" encompasses, at the very least, the range of about 50 wt. percent to about 75 wt. percent, and that the minor portion encompasses a range of about 25 wt. percent to about 50 wt. percent.

For these reasons Applicant believes the claims are in full compliance with the descriptive requirement of the first paragraph of 35 USC 112 and that the Examiner erred, and respectfully request the Board to reverse this rejection.

**Ground # 2 - Whether the term "a reduced amount of stand up fibers" renders the claim vague and indefinite under 35 USC 112, second paragraph.**

It is well established that the claims are to be read in the light of the specification. The last two paragraphs of the Background In the Specification explains the shortcomings of the prior art mats regarding stand up fibers, and Example 1, a representative prior art mat designed for coating, but shows requiring a heavy coating to cover up or reduce the "stand up" fibers. The second paragraph of

the Summary of the Specification states that the invention "minimizes the amount of stand up fibers", thus it is clear that "reduced" means "reduced from prior art mats. Also, Examples 2 and 3 (inventive mats) show improved smoothness, reduction in stand up fibers, and requiring less coating material than the prior art mat of Example 1, a mat made for coating, and a mat containing only one length of fibers, 1/2 inch long 10-11 micron fibers and that requires a heavy coating due to the frequency and nature of the stand up fibers.

Further, the term "a reduced amount of stand up fibers" is a property or characteristic of the claimed mats, a result of following the compositional limitations. The mats with "a reduced amount of stand up fibers" is a result of compositional limitations of the claims and therefore is a novel property of the claimed mats, a property not easily defined precisely because both the frequency and the length of the stand up fibers is important to the desirability and cost of the laminate containing the mat of the invention. The frequency and the length of the stand up fibers above the surface of the mat is significant to the desirability of the mat for coating, see page 2, last 5 lines of the last full paragraph, that states,

"It is also known to use off-line coating to make mats having good hiding and painting properties since the heavy coating surrounds and holds down the 'stand up' fibers, but the thick coating required adds considerable cost to the product. If there were fewer 'stand up' fibers and if the ends of these fibers were closer to the surface of the mat, substantially less coating material would be required."

Typically, the most practical and most reliable test of the frequency and nature of the "stand up fibers" is best determined by what is required to produce a coated mat suitable for painting rather than a painstaking microscopic test that at best would look at a very small area of mat.



For these reasons applicant believes that the Examiner has erred in rejecting the claims as being indefinite under 35 USC 112, second paragraph, and respectfully requests the Board of Appeals to reverse this rejection.

Claims 14 and 15, dependent from claims 1 and 5 respectively, appear to be redundant and should depend from claims 2 and 6 respectively.

**Ground # 3 - Whether the invention of all of the claims are anticipated under 35 USC 102(b) by the disclosure of Peng et al, U.S. Pat. Pub. No. 2003/0054714.**

Claims 1-8 and 14-15 were rejected under 35 USC 102 as being anticipated by the disclosure of Peng et al, Pub. Pat. App. No. 2003/0054714. The Examiner urges that the statement, "mat comprises from about 0 to about 100 wt. percent of the fibers have an average length of from about 0.5 to about 60 mm and from about 0 to about 100 wt. percent of the fibers have an average length of about 10 to about 150 mm" anticipates the applicants claimed invention. The preferred combination of 20-80% fibers about 10-45 mm long and 20-80% of the fibers about 30-80 mm is also so broad as to include 100% of the fibers that are 30-45 mm long, including a mat having 100 % of 1.18 – 1.25 inch long fibers, and such is conventional for high tear mat. These broad statements of Peng et al about the fibers used in their invention, as the Examiner is using it, is so broad as to include almost any nonwoven mat ever made and that ever will be made! Such broad statements do not anticipate every nonwoven mat made thereafter regardless of the fiber lengths, and particularly when the fiber lengths claimed are different than disclosed by the reference. For example, a broad, incredulous statement that "any chemical can be used as fuel" and citing gasoline as an example, cannot anticipate a later invention of using hydrogen peroxide as a fuel.

The Examiner's interpretation of this broad statement, i.e. that high tear mat can be made with 100 % short fibers such as less than 1/2 inch, without any evidence of correctness, is incredible, and not to be believed by one experienced in

making nonwoven glass fiber mats, i.e. one of ordinary skill in the art. Allegations in any reference that are, because of the knowledge and experience of one of ordinary skill in the pertinent art, outrageous, are not to be taken as a legitimate teaching or reasonable suggestion that any embodiment falling within such a broad description meets the other descriptors of the invention. Note that this broad description of fiber lengths includes the prior art mat of present Example 1, shown by Examples 2 and 3 to be different in kind than the mats of the invention.

To be a legitimate teaching reference for the limitation or composition urged, the reference must not only enable the practice of that part of the invention, but also must first be credible in the mind of one of ordinary skill in the art. This reference fails in both with respect to the broad statement relied on by the Examiner because the limitations are so broad as to be obviously unnecessary. These limitations include 0-100 % of the fibers to be .5 mm (about 1/50<sup>th</sup> of an inch) to about 150 mm (about 6 inches). This ridiculously broad statement is so broad as to not require a blend of two fiber lengths.

Further, the shortest commercially available glass fibers are no shorter than about 0.067 (1/16<sup>th</sup>) inch long and the longest chopped fibers commercially available are shorter than 3 inches (about 76 mm) long. Therefore this broad statement of using fibers of about 1/50<sup>th</sup> of an inch long to about 6 inches long, the statement that the Examiner is relying on, is Incredulous to one of ordinary skill in the art. In wet laid processes that Peng et al prefers, it is not known how to disperse and form a suitable mat from chopped fibers longer than about 3 inches, and practically, not longer than about 2 inches long. Those skilled in the art would not believe that part of Peng et al's broad statement that is being urged to encompass these limitations of the present invention.

Such a broad statement does not even warrant testing because those skilled in the art, knowing the effect of fiber length on tear strength of the mat, and the roofing product containing the mat, such as shingles, know that mats containing

mixtures containing any significant amount of glass fibers of less than 3/4 -1/2 inch long cannot have tear strengths better than prior art roofing mats and ditto for roofing products, such as shingles. Note that Peng et al do not reasonably show that the fiber lengths of this broad range produce the high tear strengths in the mat and roofing product, the objective of the invention. Instead, only fibers having lengths of 30-40 mm (1.18 – 1.6 inches) are shown to meet the objectives of high or higher tear strength. These long fiber lengths are conventional in high tear strength mats. Therefore, those of ordinary skill in the art would conclude that the presence of fibers less than .8 or particularly less than .8 inch long (current spec., first paragraph of Detailed Description of the Invention) do not produce higher tear strength mat. Reading applicant's claims in light of the specification shows that the term "at least .45 inch long" is not unlimited on the maximum length, but instead is limited by the following disclosure taken from the first paragraph of Detailed Description of the Invention, which reads:

**"A slurry of fibers is made by adding the fibers, having an average fiber diameter from about 9 to about 14 microns and lengths, preferably a blend of two lengths, of from about 0.12 to about 0.8 inch, preferably 0.2 to 0.6 inch, long, -----" (emphasis added)**

The higher tear strength claimed by Peng et al is due to the presence of polysiloxane primarily and because the use of fibers as long as 30- 40 mm fibers is well known. This is acknowledged by Peng et al in the paragraph 0035. Peng et al's disclosure that higher basis weight in the mat produces higher tear strength is also well known. **Therefore, Peng et al would not change the mindset of one of ordinary skill in the art that short glass fibers having lengths of less than about 1 inch long such as 1/2 inch long of shorter do not produce high tear strength in nonwoven mat. This is evidenced by Examples 1-7 of Peng et al and also all the Examples of a different inventor working for a different company, see US 5,518,586 discussed in Peng et al, see paragraph [0006]. In 5,515,586 the invention is a method of making a nonwoven glass fiber mat having high tear strength by modifying**

a urea formaldehyde resin binder in a particular way, the mat being particularly useful in shingles. **Note that while a range of fiber lengths of 1/4 inch to 3 inches are said to be useful, the fiber length used in all of the examples is 1 inch long, col. 5, lines 60-62 col. 6, lines 14-15 and 52-53 and col. 7, lines 15-16 and 58-59.**

A broad statement, certainly a ridiculously broad statement like the one being relied on by the Examiner, does not teach or reasonably suggest, even prima facie, the much more narrow limitation, such as fiber lengths of less than 1/2 inch, that produces results not taught or reasonably suggested by the reference – here a smoother surface and fewer “stand up fibers”. For example, the broad teaching that any organic resin will work cannot be a reasonable teaching, in the sense of 35 USC 102, that the use of a specific family of resins will produce results substantially different than taught by the reference. The Field of the Invention and the first sentence of both the Summary of the Invention and the Detailed Description of the Peng Invention states that the mats of the invention have “improved tear strength” that results in roofing products requiring improved tear strength. All of the examples shown by Peng et al used fibers, that were all at least 30 mm, i.e. 1.18 inches long! Peng et al does not teach how to make a roofing product having a high tear strength or any other product having improved tear compared to prior art products using a blend of fiber lengths like those described in the rejected claims. Further, the Peng et al reference is silent about the surface characteristics their mats.

If, on the other hand, Peng et al, by the use of this broad statement, is merely meaning that his invention, the application of polydimethylsiloxane to a wet web of glass fibers and polymer binders, is applicable to an extremely broad range of fiber lengths or an extremely broad range of mixed fiber lengths, which might be the case, then such statements cannot be reasonably interpreted to mean what the Examiner is urging it means, i.e. that Peng et al teaches making mats for roofing and building products having improved tear strengths, compared to prior art products,

using any combination of fiber lengths and percentages within his broad statement(s).

Finally, for a reference to anticipate an invention it must teach every element of the claim(s). Peng et al do not teach every element of the rejected claims.

One example, Peng et al does not teach using 9-14 micron diameter fibers, the mats described in claims 3 and 4, or the laminates of claims 5-8, 14 and 15. For example, teaching using fibers within the range of 1-100 microns in diameter does not teach using fibers in a range of 9-14 microns and teaching using a combination of 0-100 wt. percent of fibers of one length and 100-0 wt. percent of fibers of a second length does not teach a mat of comprising fibers in which 25 wt. percent of the fibers are one length and 75 wt. percent of the fibers are a different length.

Another example, claims 3, 5 and 14-15 describe a mat in which about half the fiber is at least 0.45 inch long and the remainder of the fiber is less than 0.4 inch long. Peng et al does not teach or reasonably suggest such a combination.

A still further example, claims 4 and 6 describe a mat in which about 75 wt. percent of the fiber is at least about 0.45 inch long and about 25 wt. percent of the fiber is about 0.2 inch long.

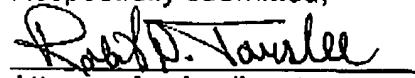
For these reasons applicant believes that the Examiner has erred in rejecting claims 1-8 and 14-15 under 35 USC 102(b) and respectfully requests the Board to reverse this rejection.

**Ground # 4 - Whether the invention of claims 3-4, 7-8, and 14-15 is made obvious under 35 USC 103(a) by the disclosure of Peng et al, described in Issue 3 above.**

The Examiner urges that the very broad fiber length combinations disclosed in Peng et al makes it obvious to one of ordinary skill in the art to optimize these combinations to achieve maximum tear strength and that this makes the presently claimed mats and laminates, containing fibers about 0.2 inch long and fibers about 0.45-0.8 inches long, of claims 3-4, 7-8 and 14-15 obvious under 35 USC 103. Although tear strength data for the mats of the claimed invention are not presented in the specification because tear strength was not important, the mats of the invention do not have high tear strengths, but instead have smooth surfaces and a substantial reduction in "stand up fibers" compared to prior art mats, a completely different objective and result than the mats of Peng et al.

More importantly, this assertion is contrary to the evidence present in Peng et al and at least one patent discussed in Peng et al. As pointed out above in the arguments in Issue # 3, both Peng et al and the inventor Mirous in US Pat. No. 5,515,586, teach methods of making a nonwoven glass fiber mat having high tear strength for use in shingles. In setting forth the best mode, both references use fibers that are at least one inch long (Note that the fiber length used in all of the examples in '586 is 1 inch long, see col. 5, lines 60-62 col. 6, lines 14-15 and 52-53 and col. 7, lines 15-16 and 58-59). The fiber lengths used By Peng et al in the best mode shown in the Examples are at least 30 mm, 1.16 inches, long and up to 40 mm, 1.57 inches long. Therefore, the Peng et al disclosure leads those of ordinary skill in the art away from the claimed invention, mats along or in laminates containing fibers from 0.12 inch long to 0.8 inches long. When a reference leads those skilled in the art away from the invention, it cannot be maintained that the reference makes the invention obvious under 35 USC 103.

Respectfully submitted,

  
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## Appendix - Claims

### List of claims involved in the appeal:

1. (Previously presented) A nonwoven fibrous mat having a smooth surface for coating, the smooth surface having a reduced amount of "stand up fibers" comprising a blend of fibers of at least two different lengths falling within the range of about 0.12 inch and about 0.6 inch bound together with a cured binder, the binder content of the mat being in the range of about 10-25 weight percent of the finished mat, the fibers having an average fiber diameter in the range of about 9 and about 14 microns and about 25 to about 50 wt. percent fibers having a length of less than about 0.4 inch long and about 75 to about 50 wt. percent fibers having a length at least about 0.45 inch long.
2. (Original) The mat of claim 1 wherein the binder is selected from a group consisting of an acrylic, a polyvinyl alcohol, a hydroxyl ethyl cellulose, a carboxyl methyl cellulose, a cellulose gums, a polyvinyl pyrrolidone, polyvinyl acetate, urea formaldehyde, melamine formaldehyde, with or without a crosslinking agent, with or without one or more plasticizers, and mixtures thereof.
3. (Original) The mat of claim 1 wherein about half of the fiber is at least about 0.45 inch long and a remainder of the fiber is less than about 0.4 inch long.
4. (Previously presented) The mat of claim 1 wherein the mat contains about 75 wt. percent fiber that is at least about 0.45 inch long and about 25 wt. percent fiber that is about 0.2 inch long.
5. (Previously presented) A laminate comprising a layer of nonwoven fiber mat having a smooth surface for coating, the smooth surface having a reduced amount of "stand up fibers" and comprising a blend of fibers of at least two different lengths

falling within the range of about 0.12 inch and about 0.8 inch bound together with a cured binder, the binder content of the mat being in the range of about 10-25 weight percent of the finished mat, the fibers having an average fiber diameter in the range of about 9 and about 14 microns, and about 25 to about 50 wt. percent fibers having a length of less than about 0.4 inch long and about 75 to about 50 wt. percent fibers having a length at least about 0.45 inch long, a surface of said mat being bonded to at least one layer of different material.

6. (Original) The laminate of claim 5 wherein the binder is selected from a group consisting of an acrylic, a polyvinyl alcohol, a hydroxyl ethyl cellulose, a carboxyl methyl cellulose, a cellulose gums, a polyvinyl pyrrolidone, polyvinyl acetate, urea formaldehyde, melamine formaldehyde, with or without a crosslinking agent, with or without one or more plasticizers, and mixtures thereof.

7. (Original) The laminate of claim 5 wherein about half of the fiber is at least about 0.45 inch long and a remainder of the fiber is less than about 0.4 inch long.

8. (Original) The mat of claim 5 wherein the mat contains about 75 wt. percent fiber that is at least about 0.45 inch long and about 25 wt. percent fiber that is about 0.2 inch long.

9-13 (Cancelled)

14. (Original) The mat of claim 1 wherein about half of the fiber is at least about 0.45 inch long and a remainder of the fiber is less than about 0.4 inch long.

15. (Original) The laminate of claim 5 wherein about half of the fiber is at least about 0.45 inch long and a remainder of the fiber is less than about 0.4 inch long.



**EVIDENCE (ADDITIONAL) APPENDIX**

**None**

**RELATED PROCEEDINGS APPENDIX**

**NONE**